

AIM Ann Report  
1909 to 1910

Annual Report  
OF THE  
Auckland Institute  
AND  
Museum  
FOR  
1909-1910.

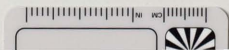
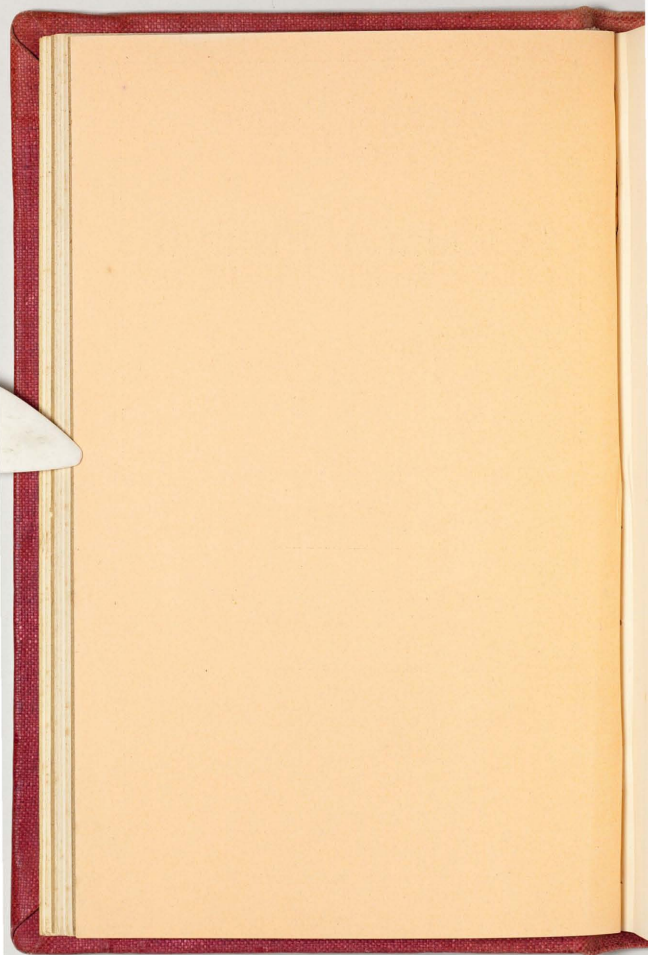
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ADOPTED AT THE ANNUAL MEETING  
HELD FEBRUARY 28TH, 1910.

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AUCKLAND :  
THE BRETT PRINTING AND PUBLISHING COMPANY, LIMITED,  
SHORTLAND AND FORT STREETS.

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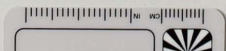
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OF THE  
AUCKLAND INSTITUTE

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**Assistant and Preparator of Specimens :**

L. GRIFFIN, F.Z.S.

**Auditor :**

W. GORRIE.

# AIM Ann Report 1909 to 1910

The following

## Periodicals and Publications of Societies

are subscribed to by the Institute :

NATURE  
THE PHILOSOPHICAL MAGAZINE  
THE AMERICAN JOURNAL OF SCIENCE  
AMERICAN CHEMICAL JOURNAL  
THE ELECTRICIAN  
THE PHYSICAL REVIEW  
ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE  
ANNALEN DER PHYSIK  
COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES SCIENCES  
ANNALS AND MAGAZINE OF NATURAL HISTORY  
QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE  
ANNALS OF BOTANY  
THE BOTANICAL GAZETTE  
ENGLER'S BOTANICAL YEAR BOOK  
THE GARDENER'S CHRONICLE  
THE GEOLOGICAL MAGAZINE  
ZEITSCHRIFT DER DEUTSCHEN GEOLOGISCHEN GESELLSCHAFT  
SCIENCE PROGRESS  
THE ECONOMIC JOURNAL  
THE LANCET

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TRANSACTIONS AND PROCEEDINGS OF THE ROYAL SOCIETY  
TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL SOCIETY  
THE ZOOLOGICAL RECORD  
PUBLICATIONS OF THE RAY SOCIETY  
JOURNAL OF THE CHEMICAL SOCIETY  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY  
QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY  
JOURNAL OF THE ROYAL AGRICULTURAL SOCIETY  
THE GEOGRAPHICAL JOURNAL  
REPORT OF THE BRITISH ASSOCIATION



## Report of the Council.

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In accordance with the Rules, the Council have now to submit to the members their forty-second Annual Report on the financial and general condition of the Institute, and its progress during the past year.

**MEMBERS.**—The number of members on the roll at the present time is 186, of whom 11 are life members and 175 annual subscribers. Fourteen new members have been elected during the year; but, on the other hand, ten names have been removed from the roll—three from death, five from resignation, and two from non-payment of subscription for more than two consecutive years. Those removed by death are Mr. D. M. Beere, Mr. R. A. Carr, and Mr. J. M. McLachlan, all of whom have been in association with the Institute for many years.

**FINANCE.**—The balance-sheets appended to the Report give full particulars respecting the financial position of the Society. The total revenue of the Working Account, after deducting the balance in hand at the commencement of the year, has been £1,195 0s. 9d. This is nearly £100 in excess of the income for the previous year, which was £1,095 7s. 1d. Examining the separate items, it will be seen that the receipts from the Costley Bequest have been £386 15s., as against £370 11s. 3d. for 1908-1909. The Museum Endowment has contributed in rents and interest the sum of £502 8s., last year's amount being £426 15s. 6d. £103 8s. 8d. have been transferred from the Mackelvie Library Bequest for the purchase of books, and £173 5s. have been derived from the members' subscriptions. The total expenditure has been £1,209 11s. 8d., leaving a credit balance of £256 19s. 11d. in the Bank of New Zealand. The mode of investment of the capital funds of the Institute, which now amount to £16,368 14s. 3d., has received considerable attention during the year. Certain portions invested in Government or Municipal debentures have been called in and re-invested in mortgages on specially selected freehold securities, with the result of considerably increasing the income of the Society.

**MEETINGS.**—Nine meetings have been held during the year, at which the following papers were read and discussed:—

1. Presidential Address: George Meredith—By PROF. C. W. EGERTON, M.A.
2. The Paston Letters: English Life in the Fifteenth Century—By PROF. H. S. DETTMANN.

3. Epochs of English Geological History—By F. HEATON, B.Sc.
4. Comets—By PROF. H. W. SEGAR, M.A.
5. Colour—By PROF. F. D. BROWN, M.A.
6. The Romance of Portuguese Expansion—By the REV. GRAY DIXON, M.A.
7. The Schoolmaster in Fiction—By H. A. MILNES, B.Sc.
8. The Heart of the Southern Alps—By DR. J. M. BELL, M.A.
9. Maori Forest Lore, Part III.—By ELSDON BEST.
10. The Cam-lever Balance—By J. CLEMENT CUFF.
11. The Rainfall and Meteorology of Waihi—By H. B. DEVEREUX.
12. Translation of Dumont D'Urville's Account of his Visit to Whangarei, Waitemata, and Thames, in 1827—By S. PERCY SMITH, F.R.G.S.
13. A Geological Reconnaissance of Northernmost New Zealand—By DR. J. M. BELL and E. DE C. CLARKE.
14. Description of a New Native Grass—By D. PETRIE.
15. On *Poa brevighunis*—By D. PETRIE.
16. The Naturalisation of *Calluna vulgaris* in the Taupo District—By D. PETRIE.
17. Notice of the Occurrence of *Leucopogon Richei* on the Mainland of New Zealand—By T. F. CHEESEMAN, F.L.S.
18. Contributions to a Knowledge of the New Zealand Flora, Part III.—By T. F. CHEESEMAN.
19. Recent Additions to the Flora of New Zealand—By T. F. CHEESEMAN.
20. Additions to the Coleopterous Fauna of the Chatham Islands—By MAJOR T. BROWN, F.E.S.
21. On the Coleoptera of the Kermadec Islands—By MAJOR T. BROWN.
22. Revision of the New Zealand Byrrhidae—By MAJOR T. BROWN.
23. Descriptions of New Genera and Species of Coleoptera—By MAJOR T. BROWN.
24. The Aeration of the Auckland Lava Beds—By J. STEWART, C.E.

A selection from the above has been forwarded to Wellington for the purpose of printing in the forthcoming volume of "Transactions."



As stated in last year's Report, the recent alterations in the Library have made it impracticable to hold the larger meetings of the Institute therein. During the past session, the Maori House was used for the purpose; but it proved to be in many respects unsuitable, to say nothing of the risk of injury which its employment for such a purpose involved. As the Institute is not in a position to erect a lecture-room of its own, it appears probable that temporary arrangements will have to be made for the use of a hall outside the Museum Buildings.

Volume 41 of the Transactions of the New Zealand Institute has been printed during the year and distributed among the members. The Proceedings were issued in parts in advance of the Transactions, no doubt with the very desirable object of supplying information to members respecting the current work of the various branches of the Institute. Objections were raised, however, to the exclusion of the Proceedings from the annual volume, and at the suggestion of this Society an arrangement has been made under which a sufficient stock will be printed to allow of their incorporation with the Transactions, as well as their separate issue.

MUSEUM.—The attendance of visitors to the Museum continues to be satisfactory. The register kept by the attendant on Sundays shows that a total number of 19,399 entered the building on that day, being an average of 373 for each Sunday. The greatest attendance was 847 on December 26, the smallest 53 on August 1. On the six chief holidays of the year the attendance was 2,833, or an average of 472. The number of visitors on ordinary week-days can be safely estimated at 175 per day, which would make a total of 53,725. Adding to this number the Sunday and holiday attendance, we have 75,957 as the total number of visitors for the whole year. This is only very slightly under the figures for last year (78,051), which were considerably swollen through the special attractions offered by the visit of the American Fleet.

Many changes of importance have been made in the Museum during the year, and the consequent advance must be looked upon as most satisfactory. In last year's Report the Council mentioned the engagement of Mr. Griffin as assistant and preparator of specimens, and his services have led to a considerable improvement in the Zoological department. The whole of the exhibited series of birds and mammals, both New Zealand and foreign, has been thoroughly cleaned and renovated, and remounted in a more modern style. With respect to the New Zealand portion, many inferior and faded specimens have been replaced by better and more artistically-mounted examples, and a start has been made towards the preparation of special groups illustrating the life history of certain species. A commencement has also been made

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in the formation of a collection of New Zealand food fishes. This it is intended to press on as rapidly as possible during the present autumn. Arrangements are also in progress for the remounting of a portion of the alcoholic specimens in rectangular glass jars recently obtained from London, and for the gradual collection and preparation of a series of New Zealand marine invertebrata.

Among the more interesting additions to the Natural History collections may be mentioned a fine specimen of the Emperor Penguin (*Aptenodytes Forsteri*) from Victoria Land, kindly forwarded by Sir Ernest Shackelton, a stuffed crocodile presented by Mr. J. Kirker, and some New Zealand birds contributed by Mr. R. Gibbs and others.

The new foreign ethnology room, the arrangement of which had just been completed at the time of the last annual meeting, has been opened to the public during the year, and has attracted considerable attention. Several additions of importance have been made to the Maori collections, the most interesting being a number of articles presented by Mr. John Webster, of Hokianga, and some others contributed by the Hon. E. Mitchelson. The last-mentioned gentleman has also provided a new show case for his collection of kauri gum, and has had it entirely rearranged. It now forms one of the most attractive exhibits in the Museum.

The plaster casts from the antique exhibited in the Statue Hall have long been in want of repairs and careful cleaning, and it is consequently satisfactory to announce that the whole collection has been put in proper order and carefully painted in distemper, the work being mainly carried out by Mr. Griffin. The walls of the room have also been re-tinted, and a barrier erected to prevent the handling of the statues by visitors.

**LIBRARY.**—Two consignments of books, numbering about 130 volumes, have been received from the Society's London agents, and a third, containing over 50 volumes, is now on its way. A full list of the books will be found in the appendix to the report. In addition to the above, 104 volumes of serials have been bound during the year and placed in the Library. The usual exchanges and presentations from foreign Societies have also been received, together with some donations from private individuals. The scientific magazines and publications of Societies subscribed to by the Institute, a list of which will be found on another page, have been regularly received and made available for the use of members.

The increasing size and importance of the Library have induced several members to suggest that the time has arrived for the preparation of a printed catalogue. As the cost of this is evidently beyond the unaided means of the Institute, it was decided to forward a circular to the members, with the view of

ascertaining what number would be prepared to purchase copies. The response hardly equalled the anticipations of the Library Committee, but that body has recommended to the Council that the work should be proceeded with.

The Council have had under their consideration an important communication from the Board of Governors of the New Zealand Institute, in which the whole subject of the future development of the libraries of the incorporated Societies was raised. The Board suggested that the whole of the libraries should be treated as a joint Library, which any member of the New Zealand Institute could use, wherever he might reside. It also advocated the preparation of a joint card catalogue, with copies for each incorporated Society; and finally recommended that the incorporated Societies, instead of each attempting the formation of a general scientific library, should select special subjects, confining their efforts mainly to the purchase of books relating to these subjects. After full consideration, the Council, while favourable to the idea of the general use of the whole of the libraries by any member, subject to proper regulations, were unable to agree with the proposed specialisation of the libraries, or with the suggested expenditure on a joint card catalogue.

In concluding the report, the Council have to thank the members for the assistance and encouragement they have given towards furthering the objects of the Institute. While congratulating the members on the steady progress of the Society, and the evident interest taken in its work by the people of Auckland, it is impossible to lose sight of the fact that the increasing growth of the institution in itself implies new duties and responsibilities and further calls on its slender revenue. The Council trust that members generally will interest themselves in the direction of securing additional subscribers, or in adding to the Museum or Library, or in any other way that may seem advisable.

# The Treasurer in Account with the Auckland Institute and Museum Trust Board.

## WORKING ACCOUNT.

February 16, 1909, to February 22, 1910.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 16, 1909	271	10	10	Books, Periodicals, Binding	155	8	6
Subscriptions	173	5	0	Additions to Museum	41	8	0
Interest from Costley Bequest	386	15	0	Museum Requisites, Laboratory Fittings, etc.	120	11	4
Rents and Interest Transferred from Museum Endowment Account	502	8	0	Salaries	640	10	4
Interest Transferred from Mackechnie Library Bequest Account	103	8	8	Printing, Advertising, Insurance, Gas, Stationery, Postages, and Miscellaneous Expenses	153	10	9
Interest from Nathan Bequest	6	0	0	Buildings, Fittings, etc.	50	10	3
Interest from Life Subscription Account	10	17	7	Land Tax	31	12	6
Duplicate Specimens Sold	10	0	0	Life Subscription Transferred to Savings Bank	10	10	0
Miscellaneous Receipts	2	6	6	Miscellaneous Payments	5	10	0
	£1,466	11	7	Balance in Bank of New Zealand, February 22, 1910	256	19	11
					£1,466	11	7

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T. F. CHEESEMAM, TREASURER.

February 25, 1910.

Examined and found correct.

W. GORRIE, AUDITOR.

# The Treasurer in Account with the Auckland Institute and Museum Trust Board.

## MUSEUM ENDOWMENT ACCOUNT.

February 16, 1909, to February 22, 1910.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 16, 1909 .. .. .	3	19	8	Transferred to Working Account .. .. .	502	8	0
Rents of Endowments .. .. .	163	14	5	Bank Charges .. .. .	0	10	0
Interest on Investments .. .. .	337	8	0	Balance in Bank of New Zealand, February 22, 1910 .. .. .	2	4	1
	<u>£505</u>	<u>2</u>	<u>1</u>		<u>£505</u>	<u>2</u>	<u>1</u>

## MACKECHNIE LIBRARY BEQUEST ACCOUNT.

February 16, 1909, to February 22, 1910.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 16, 1909 .. .. .	0	10	0	Transferred to Working Account for Purchase of Books .. .. .	103	8	8
Interest on Investments .. .. .	109	3	8	Bank Charges .. .. .	0	10	0
	<u>£109</u>	<u>13</u>	<u>8</u>	Balance in Bank of New Zealand, February 22, 1910 .. .. .	5	15	0
					<u>£109</u>	<u>13</u>	<u>8</u>

T. F. CHEESEMAN, TREASURER.

February 25, 1910.

Examined and found correct.

W. GORRIE, AUDITOR.



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## Investments of the Auckland Institute.

February 22, 1910.

### I.—COSTLEY BEQUEST—

	£	s.	d.	£	s.	d.
On Mortgage on Freehold Security at 5½% .. .. .	4,000	0	0			
New Zealand Government 4% Debentures .. .. .	1,900	0	0			
Dunedin Corporation 4½% Debentures .. .. .	1,000	0	0			
On Mortgage on Freehold Security at 5% .. .. .	650	0	0			
On Mortgage on Freehold Security at 5½% .. .. .	150	0	0			
				7,700	0	0
Invested in Site of Museum .. .. .	2,500	0	0			
Expended in Erection of Ethnological Hall .. .. .	1,500	0	0			
Expended in Show Cases and Fittings .. .. .	450	0	0			
				4,450	0	0
Total of Costley Bequest .. .. .				12,150	0	0

### II.—MUSEUM ENDOWMENT—

Harbour Board 4½% Debentures .. .. .	1,000	0	0			
Gas Company's Debentures .. .. .	600	0	0			
On Mortgage on Freehold Security at 6% .. .. .	1,200	0	0			
On Mortgage on Freehold Security at 6% .. .. .	1,000	0	0			
On Mortgage on Freehold Security at 6% .. .. .	500	0	0			
On Mortgage on Freehold Security at 6% .. .. .	500	0	0			
On Mortgage on Freehold Security at 5½% .. .. .	420	0	0			
On Mortgage on Freehold Security at 6% .. .. .	400	0	0			
On Mortgage on Freehold Security at 5½% .. .. .	350	0	0			
Waiting Investment .. .. .	392	4	3	6,362	4	3

### III.—MACKECHNIE LIBRARY BEQUEST—

On Mortgage on Freehold Security at 5½% .. .. .	1,300	0	0			
On Mortgage on Freehold Security at 5½% .. .. .	500	0	0			
Deposited with Auckland Gas Co. .. .. .	200	0	0	2,000	0	0

### IV.—NATHAN BEQUEST—

On Mortgage on Freehold Security at 6% .. .. .				100	0	0
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### V.—LIFE SUBSCRIPTION ACCOUNT—

On Mortgage on Freehold Security at 6% .. .. .	150	0	0			
Deposited in Auckland Savings Bank .. .. .	56	10	0	206	10	0

Total .. .. . £20,818 14 3

Proportion Bearing Interest .. .. . £16,368 14 3

T. F. CHEESEMAM, TREASURER.

Deeds of Securities and Receipts for Debentures lodged with Bank of New Zealand examined and found in order.

W. GORRIE, AUDITOR.



## Additions and Donations

TO THE

### Library and Museum.

- Parliamentary Papers and Reports; New Zealand Hansard for 1909; New Zealand Official Year Book; Annual Report and other Publications of the Department of Agriculture; New Zealand Statistics and other Statistical Returns:—The New Zealand Government.
- Transactions of the New Zealand Institute, Vol. 41:—The New Zealand Institute.
- Journal of the Polynesian Society, parts of Vols. 17 and 18:—The Society.
- Bulletins 7 and 8 (new series) of the Geological Survey:—The Director of the Geological Survey.
- Report of the Dominion Laboratory for 1908:—The Laboratory.
- Journal of the Linnean Society of New South Wales, parts of Vols. 33 and 34:—The Society.
- Annual Report of the Department of Mines, N.S.W.:—The Department.
- Annual Report of the N.S. Wales Fishery Board:—The Fishery Board of New South Wales.
- Annual Report of the Australian Museum, Sydney; Records of the Australian Museum, parts of Vol. 7:—The Museum.
- Maiden's Critical Revision of the genus *Eucalyptus*, Vol. 1 and Vol. 2, Part I.:—Dr. J. H. Maiden.
- Transactions and Proceedings of the Royal Society of Victoria for 1908-1909:—The Society.
- Transactions and Proceedings of the Royal Society of South Australia, Vols. 31, 32; Handbook of South Australia:—The Society.
- Transactions of the Royal Society of Queensland for 1908-1909:—The Society.
- Annals of the Queensland Museum, Nos. 2-9:—The Museum.
- United States Consular Reports:—The Secretary of State, United States.
- Chittenden's Pea Aphis; Chittenden and Russell's Semi-tropical Army Worm; Davis' Studies of Three Species of Aphis; Wilson's Peach-tree Barkbeetle; Howard's Housefleas; Moulton's Orange Thrips; Bell's Sugar-beet Leaf-hoppers; Moulton's Pear Thrips; Chittenden's Red Spider; Hunter's Boll-Weevil Problem; Phillipps' Status of Apiculture; Chittenden's Notes on Truck Crop Insects; Chittenden's Rose Chafer; Chittenden's Leopard Moth; Chittenden's Maple Worm; Hammer's Cigar Case Borer; Nelson's Rabbits of North America; Osgood's Biological Investigations in Alaska; Hopkin's Genus *Dendronotus*; Foster and Jones' Lesser Apple Worm; Hinds and Yothers' Cotton Boll-Weevil; Lantz's Brown Rat in the United States; Quaintance's New Genus of *Aleyrodidae*; Marlatt's Control of the San Jose Scale; Chittenden's Mediterranean Flour Moth; Webster's Chinch Bug; Webster's Clover-leaf Weevil; Phillipps' Seed-corn Ground-Beetle; Sanders' *Enonymus* Scale; Chit-

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- tenden's Some Insects Injurious to Truck Crops; Hopkin's Insects Injurious to Forests; Sanders' Recently Described Coccidae; Report of the U.S. Entomologist for 1909; Various Circulars and Bulletins:—The Department of Agriculture, U.S.A.
- Report of the United States National Museum for 1908-1909; Proceedings of the United States National Museum, Vols. 34-36; Various Bulletins; Contributions to the U.S. National Herbarium, parts of Vols. 12 and 13; Publications of the U.S. Bureau of Ethnology; Catalogue of Mammals in the National Museum:—The Smithsonian Institution.
- Semi-annual Bulletin of Colorado College, U.S.A., for 1908:—The College.
- Barus' Condensation of Vapour as induced by Nuclei and Ions:—The Carnegie Institute.
- Bulletin of the University of Kansas, Vol. 9.:—The University.
- Memoirs of the Bishop Museum, Honolulu, Vol. 2, No. 4; Fauna Hawaïensis, Vol. 3, Part 5, Various Bulletins:—The Bishop Museum.
- Annals of the Observatory of Harvard College, various parts:—The Observatory.
- Report of the Geological Survey of Canada; Contributions to Canadian Palaeontology, Vol. 3, Part 4; Report on the Tertiary Plants of British Columbia; Report of the Geological Branch of the Department of Mines; Sketch of the Geology and Economic Minerals of Canada; Report on the Iron Ores of the Ottawa and Gatineau Rivers; Macoun's Catalogue of Canadian Birds; Report on the Mining and Metallurgical Industries of Canada:—The Geological Survey of Canada.
- Publications of the Philippine Weather Bureau for 1909:—The Bureau.
- Journal of the Royal Colonial Institute, Vol. 40:—The Institute.
- The Museums' Journal for 1908-1909:—The Museums' Association.
- Symons' Monthly Meteorological Magazine:—The Editor.
- Publications of the Deutsche Seewarte:—The Seewarte.
- Icones Plantarum, parts of Vol. 11; Kew Bulletin for 1909-1910:—The Director, Kew.
- Discussion on Australian Meteorology; Monthly Mean Values of Barometric Pressure at Selected Stations:—The Solar Physics Committee.
- Dr. Tempest Anderson's Volcanic Studies in Many Lands:—The Author.
- Sandys' Relation of a Journey in 1610, published in 1621:—Luther Miller.

## BOOKS PURCHASED.

- Sir G. H. Darwin's Scientific Papers, Vols. 1 and 2.
- Knuth's Handbook of Flower Pollination, Vols. 1-3.
- Posepny's Genesis of Ore Deposits.
- Ostwald's Principles of Inorganic Chemistry.
- Cromer's Modern Egypt, 2 vols.
- Sir Ray Lankester's Treatise on Zoology, Parts 1, 7, and 9.
- Sir Ray Lankester's Kingdom of Man.
- Withers' Euclid's Parallel Postulate.
- Mach's Space and Geometry.
- Goerens' Introduction to Metallography.
- Henslow's Heredity of Acquired Characters in Plants.

- Sir W. Ramsay's Essays, Biographical and Chemical.  
Campbell's Modern Electrical Theory.  
Kolbe's Introduction to Electricity.  
Gomme's Folklore as an Historical Science.  
Lanchester's Aerodnetics, Vol. 2.  
Fournier D'Albe's Two New Worlds.  
Ostwald's Scientific Foundations of Analytical Chemistry.  
Poincarè's The New Physics and its Evolution.  
LeBon's The Evolution of Forces.  
Makower's The Radioactive Substances.  
Paulsen's German Education, Past and Present.  
Serviss' The Moon.  
Ewing's Mechanical Production of Cold.  
Taylor's Resistance of Ships and Screw Propulsion.  
Selous' African Nature Notes and Reminiscences.  
Poulton's Essays on Evolution.  
Pearson's The Grammar of Science.  
Thomson's Heredity.  
Ward's Climate in Relation to Man.  
Spruce's Notes of a Botanist on the Amazon and the Andes, 2 vols.  
Nicolls' Three Voyages of a Naturalist.  
Seidell's Solubilities of Inorganic and Organic Substances.  
Gibson's Hydraulics and its Applications.  
Williams' Natural History of Cancer.  
Solereeder's Systematic Anatomy of the Dicotyledons, 2 vols.  
Amundsen's The North-West Passage, 2 vols.  
King and Hall's Egypt and Western Asia in the Light of Recent Discoveries.  
Ray's Reports of the Cambridge Anthropological Expedition to Torres Straits, Vol. 3, Linguistics.  
Knott's Physics of Earthquake Phenomena.  
Green's Systematic Survey of the Organic Colouring Matters.  
Gibbs' Scientific Papers of J. Willard Gibbs, 2 vols.  
Ernst's New Flora of Krakatau.  
Wiley's Foods and their Adulteration.  
National Antarectic Expedition, Photographs, Views, and Sketches, 2 vols.  
Wiley's Principles and Practice of Agricultural Analysis, 2 vols.  
Beaulieu's Collectivism.  
Filippi's Rumenzori.  
Davies' Yun-nan.  
Blyth's Poisons, their Effects and Detection.  
Barton's Text Book on Sound.  
Stewart's Recent Advances in Organic Chemistry.  
Worthington's Study of Splashes.  
Smith's Naturalist in Tasmania.  
Friend's Theory of Valency.  
Michaelis' Century of Archaeological Discoveries.  
Cook's Through the First Antarectic Night.  
Sir R. Ball's Popular Guide to the Heavens.

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Wollaston's From Rumenzori to the Congo.  
 Sir H. Johnston's Liberia, 2 vols.  
 Hale's Study of Stellar Evolution.  
 Michelsen's Light Waves and their Uses.  
 Gadow's Through Southern Mexico.  
 Fricker's The Antarctic Regions.  
 Nordenskjold and Andersson's Antarctica.  
 Wright's New Zealand, painted by F. and W. Wright.  
 Horsley's The Romance of Empire, New Zealand.  
 Oppenheimer's Toxines and Antitoxines.  
 Hill's The Body at Work.  
 Myers' Text-book of Experimental Psychology.  
 Lowell's Mars as the Abode of Life.  
 Cooke's Illustrations of British Fungi, 8 vols.  
 Sir E. Shackelton's Heart of the Antarctic, 2 vols.  
 Reports of the British Association for 1905, 1906, 1907, 1908.  
 Tryon's Manual of Conchology, Parts 37-38.  
 Suess' Face of the Earth, Vol. 4.  
 British Museum Handlist of Birds, Vol. 5.  
 Bailey's Cyclopædia of American Agriculture, Vol. 4.  
 Cambridge Natural History, Volume on Crustacea.

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Three Stewart Island Kiwis (*Apteryx australis*): Capt. Neill.  
 Emperor Penguin (*Aptenodytes Forsteri*) from Victoria Land: Sir E. Shackelton.  
 North Island Crow (*Glaucoptes Wilsoni*): E. J. Walters.  
 Three Skins of Utick (*Sphenacacus punctatus*): R. Gibb.  
 Banded Rail (*Rallus philippensis*): T. Ryan.  
*Megapodius Pritchardii*: W. H. Hamer.  
 Chick of North Island Weka (*Ocydromus Earli*): W. H. Hart.  
 Banded Dotterel (*Ochthodromus bicinctus*): E. E. Vaile.  
 Gould's Petrel (*Majaqueus Gouldii*): Miss Alice Peel.  
 Series of Skins of Small English Mammals: R. Kemp, Long Sutton, England.  
 Frogs obtained near Perth, West Australia: Max Woitzki.  
 Cat Fish (*Genyagnus maculatus*): J. Gallagher.  
 Mounted Specimen of *Crocodylus porosus* from Singapore: J. Kirker.  
 New Zealand Frog (*Liopelma Hochstetteri*): E. J. Walter.  
 Pipe Fish (*Solenognathus spinosissimus*): Miss Boswell.  
 Three New Zealand Frogs (*Liopelma Hochstetteri*): A. C. Jameson.  
 Frost Fish (*Lepidopus caudatus*): G. Nicholson.  
*Palolo viridis* from Fiji: E. Dowell.  
*Heterostoma platycephala*: Mrs. Lyon.  
 Horny Sponge from Matata: H. Hutton and W. Savage.  
 Tsetse Flies from South Africa: G. Walker.  
 Large Block of Coral: G. Stilt.  
*Cyprea*, sp. from Fiji: E. Black.  
 New Zealand Shells: W. H. Webster.

- New Zealand Shells: J. Webster.  
 Peat from the Bog of Allen, Ireland: C. Brotherton.  
 Enclosures in Basalt from near Drury: C. Scott.  
 Large Block of Bitumen from near Muriwai: W. J. Moore.  
 Bitumen from near Muriwai: J. E. Elliott.  
 Crude Petroleum from Taranaki Bore-holes: W. Boord.  
 Moa Bones from Raglan, Silicified Wood: A. Gilmour.  
 Dust from the Eruption of Ngauruhoe, collected at Mangaweka: P. Rhodes.  
 Rock Specimens collected near the winter quarters of the "Nimrod" Expedition and on Mount Erebus, Victoria Land; Various Minerals; Fungus Peat: Sir E. Shackelton.  
 Block of Greenstone, formerly the property of Rauparaha, and showing the marks of Maori working; Ancient Tewhatewha; Ko found near Hokianga; Stone Fern-pounder; Stone Sinkers; Stone Stretcher for fish-hooks; Obsidian Core; Rifle formerly belonging to the late Judge Maning; Kiwi Feather Kits; Cord used for Fastening Canoes; Various Minerals; Russian Ikon, taken in the capture of Kertch during the Crimean War: J. Webster.  
 Kumara Spade, formerly belonging to the Chief Wahanui; Walking-stick and Revolver, formerly the property of Te Kooti; Tewhatewha formerly belonging to the Chief Parore; 4 Maori Cloaks; 2 Wooden Meres; Flax Cap; Fishing Weight; 8 Stone Axes; numerous Ethnographical Specimens from Polynesia; various Shells and Minerals: Hon. E. Mitchelson.  
 Ethnographical Specimens from the Polynesian Islands: T. Webb, J.P., Aratapu.  
 Three Maori Stone Axes: R. George.  
 Model of Gilbert Island House: A. F. Ellis.  
 Four Maori River Canoes; Bone Fish-hooks and Other Implements; Carved Burial Chest; various other articles: Purchased.  
 Ancient Fish Basket; Wooden Fern Pounder; Maori Stone Lamp, found near Oeo, Opunake: Hallyburton Johnstone.  
 Gun taken at the Battle of Rangiriri: James Wallis.  
 Silver Coin: R. W. Prior.  
 57 Pieces of Chinese Pottery: Deposited by Miss Dyer.



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## List of Members

For the Year ending March 31st, 1910.

[Honorary and Life Members distinguished thus \*.]

- |   |  |
|---|--|
| Aickin, G., Auckland                    | Daw, A. G., Auckland                           |
| Allsop, G. W., Auckland                 | Dearsly, R. J., Auckland                       |
| Arnold, C., Auckland                    | De Clive Lowe, G. T. H., L.R.C.P.,<br>Auckland |
| Bagnall, L. J., Auckland                | Darby, P., Auckland                            |
| Ball, W. T., Auckland                   | Dettmann, Prof. H. S., Auckland                |
| Bankart, A. S., Auckland                | Devereux, H. B., Waihi                         |
| Bartley, E., Devonport                  | Devore, A. E. T., Auckland                     |
| *Bates, T. L., Newcastle, N.S.W.        | Douglas, W. S., Auckland                       |
| Batger, J., Auckland                    | Duthie, D. W., Auckland                        |
| Benjamin, E. R., Auckland               | Earl, F., Auckland                             |
| Best, Elsdon, Ruatoki                   | Edson, J., Devonport                           |
| Birks, L., C.E., Rotorua                | Egerton, Prof. C. W., Auckland                 |
| Brett, H., Auckland                     | Ewington, F. G., Auckland                      |
| Briffault, R., M.B., Auckland           | Florance, R. S., Blenheim                      |
| Broun, Major, F.E.S., Mount Al-<br>bert | Foster, E. C., Auckland                        |
| Brown, E. C., Hamilton                  | *Fowlds, Hon. G., M.P., Auckland               |
| Brown, Prof. F. D., Auckland            | Garrard, C. W., Auckland                       |
| Buchanan, J., Auckland                  | George, G., Auckland                           |
| Buddle, J. H., Auckland                 | Gibb, R., Ellerslie                            |
| Buddle, T., Auckland                    | Gilbert, T., Parnell                           |
| Burgess, E. W., Devonport               | Girdler, Dr., Auckland                         |
| Burnside, W., Auckland                  | Goldie, D., Auckland                           |
| *Burton, Colonel, London                | Gordon, H. A., Auckland                        |
| Bush, W. E., C.E., Auckland             | Gorrie, W., Auckland                           |
| Buttle, J., Auckland                    | Grant, Miss J., Devonport                      |
| Cameron, R., Auckland                   | Griffin, Miss E. M., Auckland                  |
| *Campbell, Sir J. L., M.D., Auck'ld.    | Gray, S., Auckland                             |
| Casey, M., Auckland                     | Grigsby, R. C., Auckland                       |
| Cheal, P. E., Auckland                  | Guinness, W., M.D., Devonport                  |
| Cheeseman, T. F., F.L.S., Auck'ld.      | Haines, H., F.R.C.S., Auckland                 |
| Ching, T., Remuera                      | Hamer, J. H., C.E., Auckland                   |
| Clark, A., Auckland                     | Hansen, P. M., Auckland                        |
| Clark, A., M.B., Ellerslie              | Hardie, J., Auckland                           |
| Clark, H. C., Auckland                  | Hazard, W. H., Auckland                        |
| Clark, M. A., Auckland                  | Heaton, F., Auckland                           |
| Clarke, E., Auckland                    | Herbert, T., Parnell                           |
| Clarke, W. St. John, Auckland           | Hodgson, J., Auckland                          |
| Coates, T., Orakei                      | Horton, H., Auckland                           |
| Cochrane, W. S., Auckland               | Houghton, C. V., Auckland                      |
| Combes, F. H., Auckland                 | Howden, J., Auckland                           |
| Cooper, C., Auckland                    | Hutchinson, G., Auckland                       |
| Cooper, Mr. Justice, Wellington         | Inglis, R. T., B.M., Auckland                  |
| Cottrell, A. J., Auckland               | Jarman, Prof. A., Auckland                     |
| Cousins, H. G., Auckland                | Johnson, H. D., Te Aroha                       |
| Cozens, G., Auckland                    | Jones, H. W., Papakura                         |
| Craig, J. J., Auckland                  |  |
| Crosher, J., Auckland                   |  |
| Cuff, J. C., F.S.A., Auckland           |  |



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Kenderdine, J., Auckland  
Kirker, J., Auckland  
Kronfeld, G., Auckland

Lamb, G. E., M.A., Auckland  
Langguth, E., Auckland  
Lennox, J. M., Auckland  
\*Lennox, N. G., Sydney  
Leys, T. W., Auckland  
Lundon, J. R., Auckland

\*McMillan, C. C., Auckland  
Mahoney, T., Auckland  
Mair, Captain G., Rotorua  
Mair, S. A. R., Rangitikei  
Mair, Major W. G., Auckland  
Martin, J., F.G.S., Auckland  
McLean, M., Auckland  
McDowell, W. C., M.D., Auckland  
Metcalfe, H. H., M.I.C.E., Auckl'd.  
Miller, E. V., Chelsea  
Milnes, H. A. E., Auckland  
Mitchelson, Hon. E., Auckland  
Moody, T. P., Hikurangi  
Morgan, H. H., Northcote  
Morton, H. B., Auckland  
Moss, E. G. B., Auckland  
Murdoch, D. L., Auckland  
Myers, A. M., Auckland

\*Nathan, N. A., Auckland  
Newton, G. M., Auckland  
Nicholson, O., Auckland

Pabst, Dr., Auckland  
Paris, Rev. P. R., Invercargill.  
Partridge, H. E., Auckland  
Patterson, G. W. S., Auckland  
Peacock, T., Auckland  
Petrie, D., F.L.S., Auckland  
Phileox, W., Devonport  
Philson, W. W., Auckland  
Player, C. E., L.R.C.P., Birkenhead  
Pond, J. A., Auckland  
Powell, F. E., Auckland  
Purdy, J. S., M.D., Auckland  
Pycroft, A. T., Auckland

Rangihiroa, Dr., Auckland  
Reid, J., Auckland  
Renshaw, F., Auckland  
Rhodes, C., Auckland  
Robertson, E., M.D., Auckland

Robertson, W. A., Auckland  
Roche, H., Waihi  
Rolfe, W., Auckland

Savage, T. C., M.R.C.S.E., Auckl'd.  
Seegner, C., Auckland  
Segar, Prof. H. W., Auckland  
Shakespear, R. H., Little Barrier  
Shaw, H., Auckland  
Simson, T., Auckland  
Sinclair, A., Auckland  
Smeeton, H. M., Auckland  
Smith, H. G. S., Auckland  
\*Smith, S. P., F.R.G.S., Taranaki  
Smith, W. H., Auckland  
Somerville, J. M., Chelsea  
Speight, W. J., Auckland  
Spencer, W. C. C., Auckland  
Stewart, J., C.E., Auckland  
Stewart, W. F., Auckland  
Stopford, R., M.D., Auckland  
Streeter, S. C., Auckland  
Stringer, H. G., Auckland

Thomas, Prof. A. P. W., F.L.S.,  
Auckland  
Tibbs, J. W., Auckland  
\*Tinne, H., London

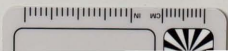
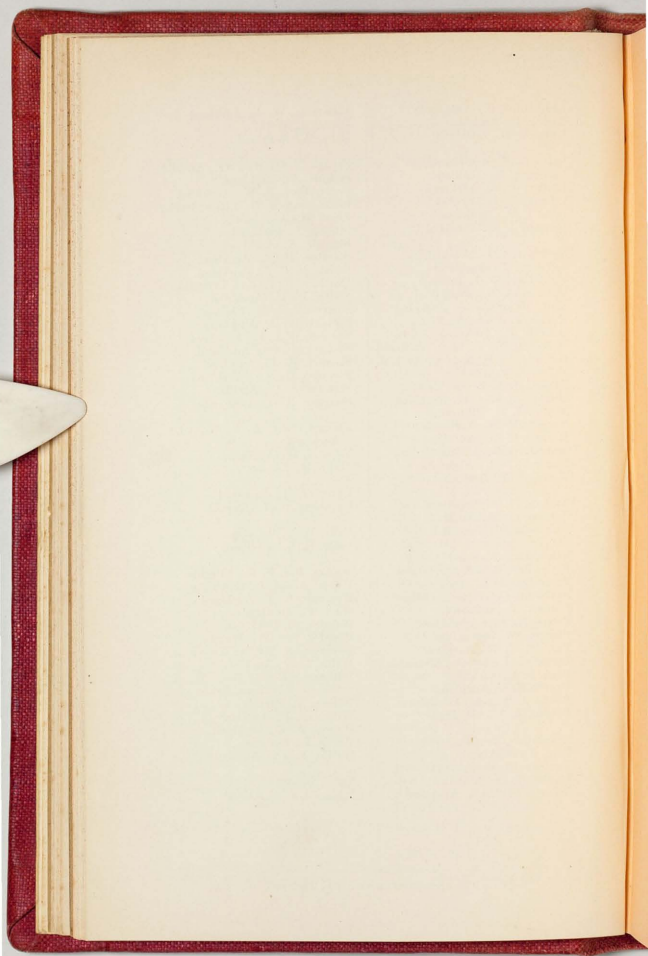
Upton, J. H., Auckland  
Urquhart, A. T., Karaka

Vaile, E. E., Waiotapu  
Vaile, H. E., Auckland

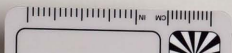
Walker, Rev. F. W., Ellerslie  
Walsh, Archd. P., Cambridge  
Waterworth, A., Auckland  
Ward, P., Auckland  
Webster, J., Hokianga  
Webster, Rev. W., Waiuku  
\*Weetman, S., F.R.G.S., Epsom  
Wells, T. U., Auckland  
Williams, Right Rev. W. L.,  
Bishop of Waiapu, Napier  
Wilson, A., Parnell  
Wilson, A. P., Auckland  
Wilson, W. R., Auckland  
\*Withy, E., Rotorua  
Wyllie, A., C.E., Auckland

Yates, E., Auckland  
Young, J. L., Auckland

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